

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No.:	Application No.:
	IMM-00607/03	09/638,485
	Applicant:	
	Jacobus et al.	
Filing Date:	Group:	
8/14/00	2837	

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
/MS/	A	5,589,828	12/31/96	Armstrong	341	20	3/5/92
	B	5,589,854	12/31/96	Tsai	345	161	6/22/95
	C	5,625,576	4/29/97	Massie et al.	364	578	10/1/93
	D	5,642,469	6/24/97	Hannaford	395	99	11/3/94
	E	5,643,087	7/1/97	Marcus et al.	463	38	7/29/94
	F	5,709,219	01/20/98	Chen et al.	128	782	08/01/96
	G	5,721,566	2/24/98	Rosenberg et al.	345	161	6/9/95
	H	5,731,804	3/24/98	Rosenberg	345	156	1/18/95
	I	5,734,373	3/31/98	Rosenberg et al.	345	161	12/1/95
	J	5,767,839	6/16/98	Rosenberg	345	161	3/3/95
/MS/	K	5,769,640	6/16/98	Jacobus et al.	434	262	8/10/95

6/1/98

10/30/07

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							
	M							
	N							
	O							
	P							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
/MS/	R	Adelstein Bernard D. et al., "A High Performance Two Degree-of-Freedom Kinesthetic Interface," Massachusetts Institute of Technology 1992, pp. 108-112.
/MS/	S	Hannaford, B. et al., "Performance Evaluation of a Six-Axis Generalized Force-Reflecting Teleoperator," IEEE Transactions on Systems, Man, and Cybernetics, 1991.
/MS/	T	Howe, R. et al., "Task Performance with a Dextrous Teleoperated Hand System," Proceedings of SPIE, Vol. 1833, Nov. 1992.
Examiner	/Mansour Said/	
Date Considered	05/29/2007	

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
/MS/	A	5,223,776	6/29/93	Radke et al.	318	568.1	12/31/90
	B	5,228,356	7/20/93	Chuang	74	471	11/25/91
	C	5,264,768	11/23/93	Gregory et al.	318	561	10/6/92
	D	5,275,565	2/23/93	Moncrief 1/1994	434	29	2/23/93
	E	5,381,080	1/10/95	Schnell et al.	318	566	2/18/93
	F	5,414,337	5/9/95	Schuler	318	561	6/11/93
	G	5,459,382	10/17/95	Jacobus et al.	318	568.11	6/9/94
	H	5,513,100	4/30/96	Parker et al.	364	167.01	6/10/93
	I	5,576,727	11/19/96	Rosenberg et al.	345	179	6/5/95
	J	5,577,981	11/26/96	Jarvik	482	4	8/4/95
/MS/	K	5,587,937	12/24/96	Massie et al.	364	578	4/25/95

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							
	M							
	N							
	O							
	P							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
/MS/	R	Russo, "The Design and Implementation of a Three Degree-of-Freedom Force Output Joystick", Submitted to the Department of Mechanical Engineering on May 11, 1990.
/MS/	S	Rosenberg, Louis B., "Perceptual Design of a Virtual Rigid Surface Contact," Center for Design Research Stanford University, Air Force Material Command, April 1993, pp. 1-41.
/MS/	T	Atkinson, William D. et al, "Computing with Feeling," Comput. & Graphics, Vol. 2, No. 2-E, pp. 97-103.
Examiner	/Mansour Said/	
Date Considered	05/29/2007	

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PTO/SB/08A (10-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1448A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/638,485
		Filing Date	August 14, 2000
		First Named Inventor	Charles J. JACOBUS
		Group Art Unit	2837
		Examiner Name	Tyrone W. Smith
		Attorney Docket Number	IMM069D
Sheet	1	of	5

U.S. PATENT DOCUMENTS						
Examiner	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)				
/MS/	AA	3,220,121		11/30/1985	Cutler	
	AB	3,517,448		8/30/1970	Coryon et al.	
	AC	3,903,814		9/9/1975	Diamond et al.	
	AD	4,238,325		12 10/2/1980	Hall et al.	
	AE	4,513,235		4/23/1985	Acklam et al.	
	AF	4,599,070		7/8/1988	Hladky et al.	
	AG	4,708,858		11/24/1987	De Vries et al.	
	AH	4,713,007		12/15/1987	Alban	
	AI	4,891,784		1/2/1990	McIntosh	
	AJ	5,019,781		5/28/1991	Kraft	
	AK	5,022,407		6/11/1991	Horch et al.	
	AL	5,240,417		8/31/1993	Smithson et al.	
	AM	5,271,290		12/21/1993	Fischer	
	AN	5,275,174		1/4/1994	Cook	
	AO	5,785,630		7/28/1988	Bobick et al.	
	AP	3,157,853		11/17/1984	Hirsch	
	AQ	3,497,688		2/24/1970	Hirsch	
	AR	3,802,687		9 6/25/1975 1975	Hightower	
	AS	4,180,508		7/10/1979	Salsbury	
	AT	4,581,491		4/8/1988	Boothroyd	
	AU	4,830,770		6/5/1990	Baker	
	AV	4,934,894		8/19/1990	McIntosh	
	AW	5,035,242		7/30/1991	Franklin	
	AX	5,038,089		8/6/1991	Szakaly	
	AY	5,078,152		1/7/1992	Bond	
	AZ	5,299,810		4/5/1994	Pierce	
	BA	5,308,140		8/3/1994	Everett	
	BB	5,334,027		8/2/1994	Wherlock	
	BC	5,547,382		8/20/1998	Yamasaki	
	BD	5,212,473		5/18/1993	Louis	
	BE	5,488,213		11/14/1995	Hogan	
	BF	5,788,016		8/19/1998	Sinclair	
	BG	5,188,000 5,186, 645		2/18/1993	Mangseth et al.	
	BH	8,422,941		7/23/2002	Thomer et al.	
		8,111,577		8/28/2000	Zilles et al.	

Examiner Signature	/Mansour Said/	Date Considered	05/29/2007
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Kinds of U.S. Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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